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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

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NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 FEB 27 New STN AnaVist pricing effective March 1, 2006
NEWS 4 APR 04 STN AnaVist \$500 visualization usage credit offered
NEWS 5 MAY 10 CA/CAPLUS enhanced with 1900-1906 U.S. patent records
NEWS 6 MAY 11 KOREAPAT updates resume
NEWS 7 MAY 19 Derwent World Patents Index to be reloaded and enhanced
NEWS 8 MAY 30 IPC 8 Rolled-up Core codes added to CA/CAPLUS and
USPATFULL/USPAT2
NEWS 9 MAY 30 The F-Term thesaurus is now available in CA/CAPLUS
NEWS 10 JUN 02 The first reclassification of IPC codes now complete in
INPADOC
NEWS 11 JUN 26 TULSA/TULSA2 reloaded and enhanced with new search and
and display fields
NEWS 12 JUN 28 Price changes in full-text patent databases EPFULL and PCTFULL
NEWS 13 JUL 11 CHEMSAFE reloaded and enhanced
NEWS 14 JUL 14 FSTA enhanced with Japanese patents
NEWS 15 JUL 19 Coverage of Research Disclosure reinstated in DWPI

NEWS EXPRESS JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8
NEWS X25 X.25 communication option no longer available

Enter NEWS followed by the item number or name to see news on that
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 15:59:36 ON 04 AUG 2006

=> file .mymstn

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'MEDLINE' ENTERED AT 15:59:53 ON 04 AUG 2006

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=> lactic (w) acid and yeast and ethanol
LACTIC IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s lactic (w) acid and yeast and ethanol and acid (w) tolerant
L1 3 LACTIC (W) ACID AND YEAST AND ETHANOL AND ACID (W) TOLERANT

=> d ibib abs l1 1-3

L1 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:453747 CAPLUS

DOCUMENT NUMBER: 142:480913

TITLE: Lactic acid production by a
recombinant acid-tolerant
yeast expressing an exogenous lactate
dehydrogenase gene

INVENTOR(S): Liu, Chi Li; Lievense, Jefferson C.

PATENT ASSIGNEE(S): A. E. Staley Manufacturing Co., USA

SOURCE: U.S. Pat. Appl. Publ., 24 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005112737	A1	20050526	US 2003-717993	20031120
AU 2004293781	A1	20050609	AU 2004-293781	20041117
WO 2005052174	A2	20050609	WO 2004-US38548	20041117
WO 2005052174	A3	20051124		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,			

EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
NE, SN, TD, TG

PRIORITY APPLN. INFO.:

US 2003-717993 A 20031120
WO 2004-US38548 W 20041117

AB Disclosed herein are yeasts, which, when cultured, can produce relatively high concns. of lactic acid. Also disclosed herein are culture media that result in relatively lower levels of byproduct impurities when lactic acid-producing yeast are cultured in them.

L1 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:486088 CAPLUS

DOCUMENT NUMBER: 139:260041

TITLE: Control of lactate production by *Saccharomyces cerevisiae* expressing a bacterial LDH gene

AUTHOR(S): Colombie, S.; Dequin, S.; Sablayrolles, J. M.

CORPORATE SOURCE: UMR "Sciences pour l'Oenologie", INRA, Montpellier, 34060, Fr.

SOURCE: Enzyme and Microbial Technology (2003), 33(1), 38-46
CODEN: EMTED2; ISSN: 0141-0229

PUBLISHER: Elsevier Science

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Potential industrial applications for lactate, such as the production of chems., has led to interest in producing this organic acid by metabolically engineered yeast such as *Saccharomyces cerevisiae*. Such microorganisms are more acid tolerant than lactic acid bacteria. This paper deals with the potential of the genetically modified *S. cerevisiae* strain K1-LDH (the lactate dehydrogenase gene of *Lactobacillus plantarum* has been integrated in the genome of the com. wine yeast strain K1) to produce lactate and the ways to control this production. The importance of the pH control during fermentation is showed not only for preventing medium acidification but also enabling online lactate estimation. Fermentation behavior of K1-LDH strain is compared to K1 (control strain): K1-LDH produces up to 40 g l⁻¹ of lactate mainly during the stationary phase. Influences of the main medium nutrients on the lactate production were studied by varying their initial concentration. While increasing glucose concentration (S0) until S0=200 g l⁻¹ provides higher lactate yields, higher lactate productivity are achieved with high nitrogen concentration. Finally, continuous and resting cells culture expts. were performed and confirmed a higher lactate yield in non-growing than in growing conditions.

REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1990:550813 CAPLUS

DOCUMENT NUMBER: 113:150813

TITLE: Construction of high ethanol producing and acid tolerant yeast by intergeneric protoplast fusion

AUTHOR(S): Limtong, Savitree; Veskijkul, Sirin; Yongmanichai, Wichien; Kumnuanta, Jaroon

CORPORATE SOURCE: Fac. Sci., Kasetsart Univ., Bangkok, 10900, Thailand
SOURCE: Microbial Utilization of Renewable Resources (1989), 6, 359-64

CODEN: MURRE6

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Attempts were made to construct high EtOH-producing and acid-tolerant hybrids by intergeneric protoplast fusion of

Saccharomyces cerevisiae TJ3 (EtOH-producing flocculent strain) with
Candida krusei G/3 (acid-tolerant and nonflocculent).
Only 1 fusant, 3GT45, from a total of 100 was selected. In medium containing
2% lactic acid, 3GT45 produced 7.33% EtOH in 72 h,
while the parental strains TJ3 and G/3 produced 6.55 and 6.83%, resp.
3GT45 also was highly flocculent, similar to its flocculent parental
strain.

=> FIL STNGUIDE

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

27.71

27.92

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-2.25

-2.25

FILE 'STNGUIDE' ENTERED AT 16:02:26 ON 04 AUG 2006

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LAST RELOADED: Jul 28, 2006 (20060728/UP).